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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/761,910	01/17/2001	Fred Chu	Adtran.2001.01	6132
24504	7590 02/16/2005		EXAMINER	
THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP			BURD, KEVIN MICHAEL	
100 GALLEI STE 1750	RIA PARKWAY, NW		ART UNIT	PAPER NUMBER
ATLANTA, GA 30339-5948			2631	
			DATE MAILED: 02/16/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)			
		09/761,910	CHU ET AL.			
		Examiner	Art Unit			
	•	Kevin M. Burd	2631			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. a period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status						
1) 又	Responsive to communication(s) filed on 27 Oc	ctober 2004.				
·	This action is FINAL . 2b) ☐ This action is non-final.					
3)□	Since this application is in condition for allowar		secution as to the merits is			
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
 4) ☐ Claim(s) 1-64 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 1-57 is/are allowed. 6) ☐ Claim(s) 58-64 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 						
Applicat	ion Papers					
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
		aminer. Note the attached Office	Action or form PTO-152.			
Priority (under 35 U.S.C. § 119		1			
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorical application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen	t(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
3) 🔲 Infori	1 🚍					

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1. This office action, in response to the amendment filed 10/27/2004, is a final office action.

Response to Arguments

2. Applicant's arguments on pages 23-25 of the amendment, filed 10/27/2004, with respect to claims 1-11 and 21-56 have been fully considered and are persuasive. The rejections of these claims have been withdrawn. These claims are allowed.

New claims 58-64 are rejected as stated below.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 58-64 are rejected under 35 U.S.C. 102(b) as being anticipated by Chevillat et al (US 5,031,195).

Regarding claims 58, 61 and 64, Chevillat discloses a method and apparatus for correlated noise reduction as shown in figure 7. A Viterbi (trellis) decoder (column 5, lines 63-65) receives a sample of an analog data signal. The trellis decoder makes a first symbol decision and this signal, a_n, is input to the ISI coefficient estimator 44. This signal is a tentative decision (column 10, lines 54-56). a_n is also used to create an error

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signal e_n. The trellis decoder makes a second decision for the sample and this signal a_{n-} D is output from the system. The tentative decision is made prior second decision. The ISI coefficient estimator (noise predictor) has its coefficients updated based on the error signal (column 9, lines 31-48).

Regarding claims 59 and 62, the error signal is indicative of the difference between a tentative decision and a delayed version of the sample as shown in figure 7. The delay is cause by the path prior to the input of the adder that has the output of ISI coefficient estimator 44 as an input.

Regarding claims 60 and 63, the tentative decision is an "estimate" of the symbol and the output of the system is the "decoded" symbol.

Allowable Subject Matter

Claims 1-57 are allowed. 4.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Burd whose telephone number is (571) 272-3008. The examiner can normally be reached on Monday - Thursday 9 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin M. Burd

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